

Purpose

To distinguish various fish species found in Kentucky.

Academic Expectations

1.1, 1.2, 1.3, 1.10, 2.1, 2.2, 2.3, 2.4, 2.6, 2.19, 2.20, 2.22, 2.27, 2.35, 2.36, 3.4, 3.7, 4.4, 5.1, 6.1, 6.3

Objectives

- 1. Compare fish found in the state.
- 2. Identify various habitats associated with species of fish.
- 3. Identify limiting factors of animal populations.

Kentucky's Unusual Fish

Vocabulary

anal fin: A spiny or soft-rayed fin situated on the

midline of the belly behind the anus.

caudal fin: The tail fin of a fish.

dorsal fin: A fin or fins located along the midline of

fish's back, usually near the midpoint.

fry: Newly hatched fish.

fish: An animal with a backbone that breathes with

gills and lives its entire life in water.

fingerling: A young fish usually less than 6 inches.

gill: The organ with which a fish extracts oxygen

from water.

gill cover: The thin bony plate on the sides of the fish's

head that protects the delicate structures of

the gills.

gill raker: A body arch whose rear edge is fringed with a

dense series of tiny blood-filled filaments that absorb oxygen from the water passing over

them - found in paddlefish.

ichthyologist: Scientist trained in the study of fishes.

lateral line: A series of small sensory pores connected to a

series of scales extending along the side of a fish.

snout: The extreme forward point of a fish's head. **spawn:** The act of mating and reproduction in fish.

Project Wild Activities

Fishy Who's Who, Fashion a Fish

Lab Sheet

- 1. Kentucky's Unusual Fish
- 2. Diagram of the Spiny-rayed Fish and Soft-rayed Fish

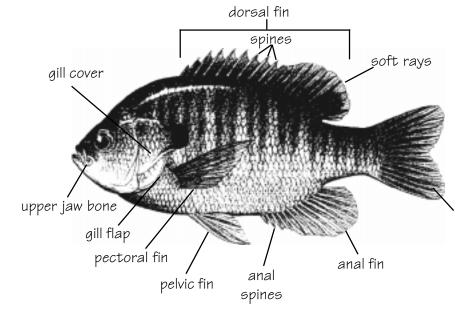
Outcomes

List the types of aquatic habitat found in Kentucky and choose fish which may be found in that habitat.

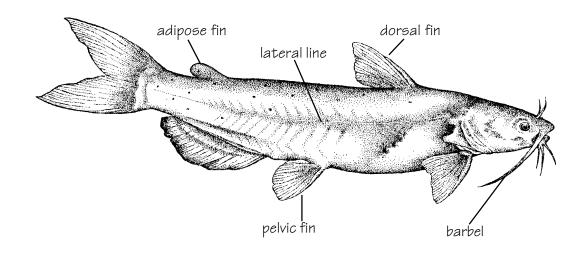
Identify the public fishing opportunities found in your county.

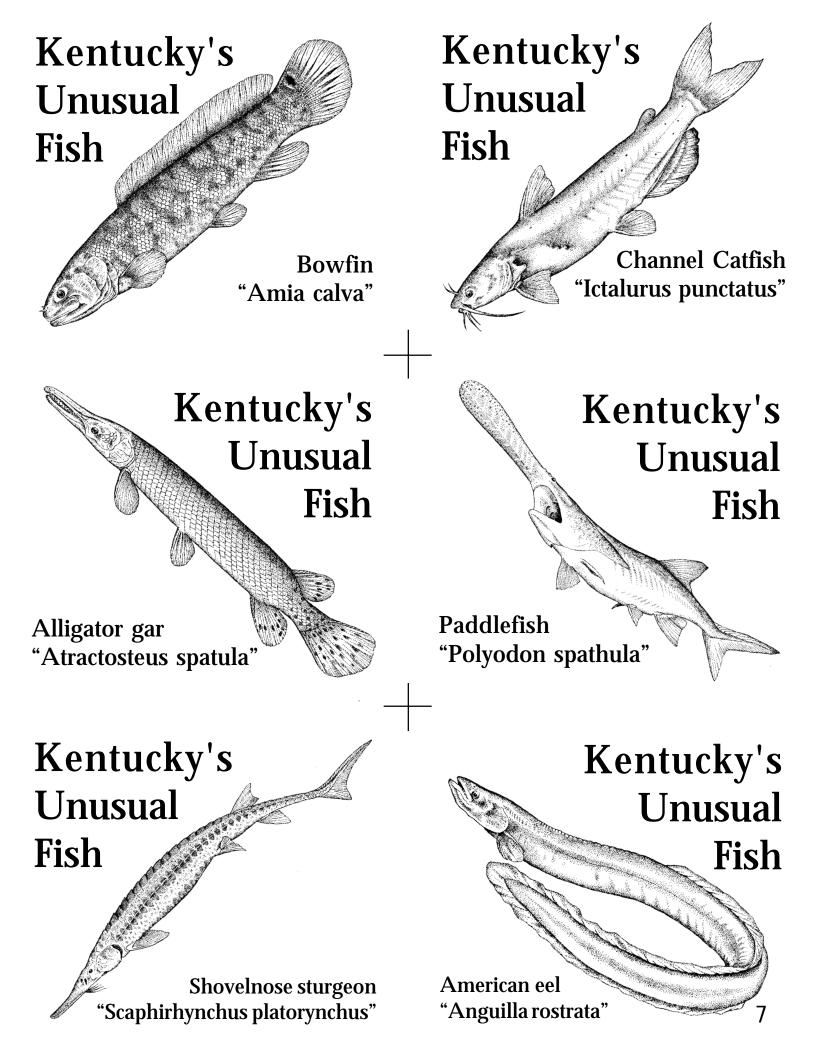
Spiny-rayed Fish

LAB SHEET 1



Soft-rayed Fish





Channel Catfish "Ictalurus punctatus"

Description: Deeply-forked tail, dark spots on the body,

average weight between 2 and 7 pounds.

Habitat: Rivers, streams, lakes, ponds

Facts:

- * varied diet includes fish, insects, crayfish, worms, dead materials
- * most active at night, retire to deep water during the day

Paddlefish "Polyodon spathula"

Description: Bluish-gray with long paddle-shaped

snout, large mouth and small eyes. No scales except for a few on upper lobe of

caudal fin, very ancient fish.

Habitat: Large, low-gradient rivers, periodically

found in flooded oxbow lakes.

Facts:

- * Lives up to 30 years, grows up to 200 lbs.
- * Spawns from April-June
- * Fishermen catch them by snagging, eggs are eaten for caviar.

American eel "Anguilla rostrata"

Description: Only eel found in America. Well-

developed jaws, snake-like, no pelvic fins.

Habitat: Large streams and rivers

Facts:

- * After several years of living in freshwater, they migrate downstream to the Gulf Stream to salt water, go to breeding grounds south of Bermuda, spawn and die. Eggs hatch and larvae drift with Gulf Stream, eventually finding their way into freshwater streams.
- * average length is 30 inches, weight is 3 lbs.

Bowfin "Amia calva"

Description: Primitive skeleton, partly bone, partly

cartilage. Round head, long, low

dorsal fin.

Habitat: Rivers, oxbows, and swamps

Facts:

- *Weighs around 4 lbs, length averages 34 inches
- * feeds on fish and crayfish

Alligator gar "Atractosteus spatula"

Description: Long, brown fish with long slender

snout. Top of head and snout without

spots.

Habitat: Rivers, oxbow lakes, swamps

Facts:

- * Feeds on other fish
- * One of the largest freshwater fish in North America
- * Spawns from early May to mid-June.

Shovelnose sturgeon "Scaphirhynchus platorynchus"

Description: Broad flathead, eyes small, rows of bony

plates along sides.

Habitat: Shallow areas and deep channels of

larger rivers

Facts:

- * eats fish and insects
- * average length is 36 inches
- * there are 7 species of sturgeon found in the U.S., eggs eaten for caviar.